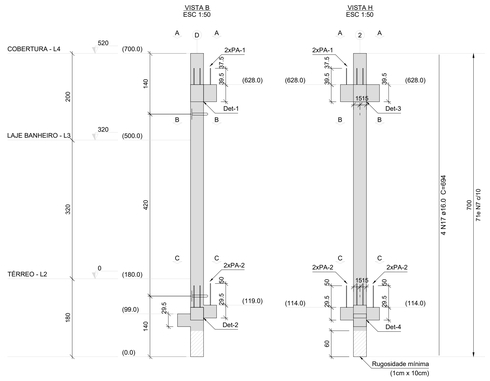
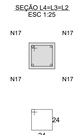
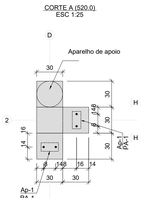
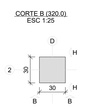
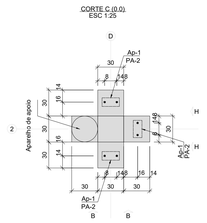
P11

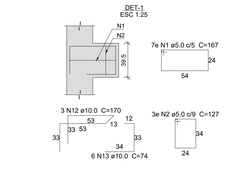


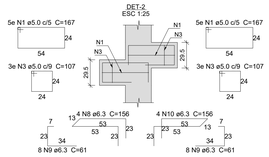


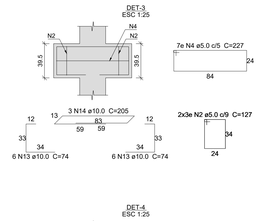


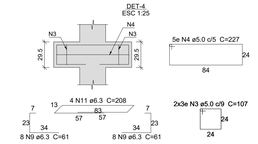












Relação do aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	17	167	2839
	2	5.0	15	127	1905
	3	5.0	18	107	1926
	4	5.0	12	227	2724
CA50	7	6.3	71	108	7668
	8	6.3	4	156	624
	9	6.3	32	61	1952
	10	6.3	4	156	624
	11	6.3	4	208	832
	12	10.0	3	170	510
	13	10.0	18	74	1332
	14	10.0	3	205	615
	17	16.0	4	694	2776

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	117	28.6
	10.0	24.6	15.1
	16.0	27.8	43.8
CA60	5.0	94	14.5
PESO TOTAL (kg)			
CA50	87.6		
CA60	14.5		

Volume de concreto (C-40) = 0.81 m³
Peso total = 2028.38 kg

Relação dos aparelhos de apoio

Nome	Quantidade	Dimensões			Dureza
		B (cm)	H (cm)	E (cm)	
Ap-1	5	20	10	1	50 Shore A

Relação dos pinos de ancoragem

Nome	Quantidade	Aço	ø (mm)	Comp. (cm)
PA-1	4	CA25	12.5	74
PA-2	6	CA25	12.5	77

Relação das alças de içamento

Qtde.	Aço	ø (mm)	C. Anc. (cm)	C. Unit. (cm)
2	ASTM A36	10	27	97

Relação do aço

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AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	39	167	6513
	2	5.0	18	127	2286
	3	5.0	27	107	2889
	4	5.0	12	227	2724
	5	5.0	9	207	1863
CA50	6	5.0	12	183	2196
	7	6.3	142	108	15336
	8	6.3	8	156	1248
	9	6.3	56	61	3416
	10	6.3	12	156	1872
	11	6.3	4	208	832
	12	10.0	6	170	1020
	13	10.0	24	74	1776
	14	10.0	3	205	615
	15	12.5	2	214	428
	16	12.5	8	113	904
	17	16.0	8	694	5552

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	227.1	55.6
	10.0	34.2	21
	12.5	13.4	12.8
	16.0	55.6	87.6
CA60	5.0	184.8	28.5
PESO TOTAL (kg)			
CA50	177		
CA60	28.5		

Volume de concreto (C-40) = 1.62 m³

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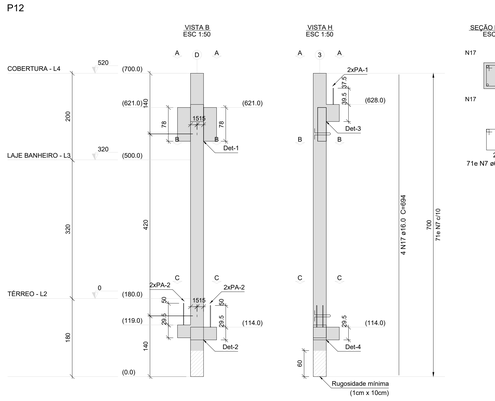

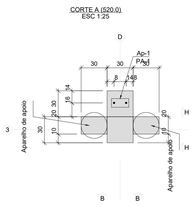

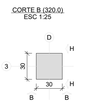

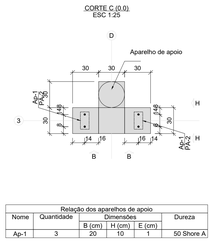

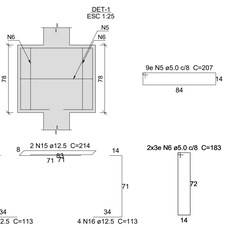

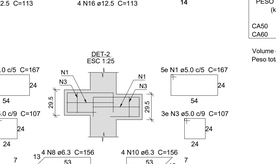

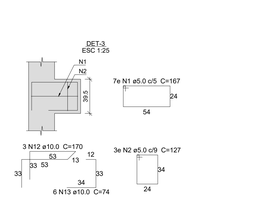

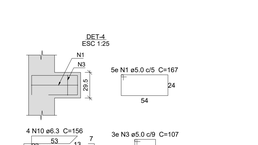

Relação do aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	5	5.0	9	207	1863
	6	5.0	12	183	2196
	1	5.0	22	167	3674
	3	5.0	9	107	963
	2	5.0	3	127	381
CA50	7	6.3	71	108	7668
	8	6.3	4	156	624
	9	6.3	24	61	1464
	10	6.3	8	156	1248
	12	10.0	3	170	510
	13	10.0	6	74	444
	15	12.5	2	214	428
	16	12.5	8	113	904
	17	16.0	4	694	2776

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	110.1	26.9
	12.5	13.4	12.8
	16.0	27.8	43.8
CA60	5.0	90.8	14
PESO TOTAL (kg)			
CA50	89.5		
CA60	14		

Volume de concreto (C-40) = 0.81 m³
Peso total = 2018.25 kg

Relação dos aparelhos de apoio

Nome	Quantidade	Dimensões			Dureza
		B (cm)	H (cm)	E (cm)	
Ap-1	3	20	10	1	50 Shore A

Relação dos pinos de ancoragem

Nome	Quantidade	Aço	ø (mm)	Comp. (cm)
PA-1	2	CA25	12.5	74
PA-2	4	CA25	12.5	77

Relação das alças de içamento

Qtde.	Aço	ø (mm)	C. Anc. (cm)	C. Unit. (cm)
2	ASTM A36	10	27	97

FUNDAÇÃO PARA O DESENVOLVIMENTO TECNOLÓGICO DA ENGENHARIA

Projetista:
FUNDAÇÃO PARA O DESENVOLVIMENTO TECNOLÓGICO DA ENGENHARIA

Coordenador do Projeto:
ANTONIO CARLOS FONSECA
RRT/ART: 28027230231457406
CAU/CREA: 0600420948-SP
Visto:

Elaboração:
JULIO CEZAR TONETTI
RRT/ART: 13700925
CAU/CREA: A58108-9
Visto: JULIO CEZAR TONETTI:146 25881846 Assinado de forma digital por JULIO CEZAR TONETTI:14625881846 Dados: 2023.04.24 10:15:12 -03'00'

MUNICÍPIO DE HORTOLÂNDIA

Administração
JOSÉ NAZARENO
ZEZÉ GOMES
2021-2024

Obra: CONSTRUÇÕES ANEXOS - ENTORNO DO PAÇO
Local: PROLONG. ESTRADA SABINA BAPTISTA DE CAMARGO
Nº Contrato: 189/2023
Título: ESTUDOS E PROJETOS DE ESTRUTURA - ANEXO I - PILARES - P11 E P12
Código: DE-PB-3-OB.01-EST-025
SECRETARIA MUNICIPAL DE OBRAS — DEPARTAMENTO DE PROJETOS - APROVAÇÃO (CARIMBO E ASSINATURA)
Data: 12/2023
Revisão: 01
SECRETARIA MUNICIPAL DE OBRAS — DEPARTAMENTO DE OBRAS - APROVAÇÃO (CARIMBO E ASSINATURA)
Escala: 1:50
Folha: 25/30
SECRETARIA DE MOBILIDADE URBANA — DEPARTAMENTO DE PROJETOS - APROVAÇÃO (CARIMBO E ASSINATURA)